

CLAIMS

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1. A drive apparatus for a hybrid vehicle comprising:
an engine;
a motor constituted by a stator and a rotor;
an automatic transmission having a fluid transmitting apparatus; and
a case for receiving said motor; and
a driving force output from said engine and said motor being transmitted to an input member of said fluid transmitting apparatus,
characterized in that said motor is arranged in a side of an outer diameter of said fluid transmitting apparatus at a position at which at least a part of said motor is overlapped with said fluid transmitting apparatus in an axial direction, with a predetermined gap between said rotor and said fluid transmitting apparatus, and
said rotor is supported by one of said fluid transmitting apparatus and an output shaft of said engine or a combination of any two among said fluid transmitting apparatus, said case and the output shaft of said engine.
 2. The drive apparatus for a hybrid vehicle according to claim 1, characterized in that said rotor is supported by the output shaft of said engine and an input member of said fluid transmitting apparatus.
 3. The drive apparatus for a hybrid vehicle according to claim 1, characterized in that said rotor is fixed to and supported by the

input member of said fluid transmitting apparatus.

4. The drive apparatus for a hybrid vehicle according to claim 1, characterized in that said rotor is fixed to and supported by the output shaft of said engine.

5. The drive apparatus for a hybrid vehicle according to claim 1, characterized in that said rotor is supported by said case and the input member of said fluid transmitting apparatus.

6. The drive apparatus for a hybrid vehicle according to claim 1, characterized in that said rotor is supported by said case and the output shaft of said engine.

7. The drive apparatus for a hybrid vehicle according to claim 2, characterized in that said rotor has a shaft portion at a center of rotation thereof, and the shaft portion of said rotor is in contact with an output shaft of said engine in an axially narrow area, thereby being supported by said output shaft in such a manner as to freely move relatively.

8. The drive apparatus for a hybrid vehicle according to claim 7, characterized in that a concave portion is formed on an end surface of the output shaft of said engine,

an annular protruding groove portion is formed in an axially narrow area on an outer peripheral surface of the shaft portion of the rotor, and

a shaft portion of said rotor is inserted to said concave portion and said protruding groove portion is in contact with said output shaft, thereby being supported by said output shaft.

9. The drive apparatus for a hybrid vehicle according to any of claims 2, 7 or 8, characterized in that said fluid transmitting

overlapped with said bearing portion.

13. The drive apparatus for a hybrid vehicle according to claim 3, characterized in that said engine output shaft and the input member of said fluid transmitting apparatus are supported so as to freely move relatively and connected so as to freely move in an axial direction.

14. The drive apparatus for a hybrid vehicle according to claim 4, characterized in that said engine output shaft and the input member of said fluid transmitting apparatus are supported so as to freely move relatively and connected so as to freely move in an axial direction.

15. The drive apparatus for a hybrid vehicle according to claim 5, characterized in that said rotor and the input member of said fluid transmitting apparatus are integrally fixed so as to be rotatably supported to said case and connected to the output shaft of said engine so as to freely move in an axial direction.

16. The drive apparatus for a hybrid vehicle according to claim 6, characterized in that said rotor and the output shaft of said engine are integrally fixed so as to be rotatably supported to said case and connected to the input member of said fluid transmitting apparatus so as to freely move in an axial direction.

17. The drive apparatus for a hybrid vehicle according to any of claims 1 to 16, characterized in that said fluid transmitting apparatus has a front cover covering a turbine runner and serving as said input member connected to a pump impeller, and

said front cover has a flat portion extending in an axial direction and said rotor is arranged in a side of an outer side of

